

Fabien Houang

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EDUCATION

EPITA

MSC IN COMPUTER SCIENCE

2015-2019 | Paris, France

SCIA - Major in Data Science and Artificial Intelligence

LINKS

LinkedIn:// [houang-fabien](#)

Github:// [fabienhouang](#)

Gitlab:// [fabien_houang](#)

Portfolio:// [fabienhouang.github.io](#)

COURSEWORK

Unix Tools and Scripting
 Data Structures & Algorithms
 Functional Programming
 Probabilities & Statistics
 Big Data & Data Processing
 Features Extraction
 Convex Optimization
 Computer Vision
 Machine Learning
 Deep Learning Engineering
 Cloud Computing

SKILLS

PROGRAMMING

Proficient:

C/C++ • Python • Java • \LaTeX
 Linux shell • SQL | PostgreSQL

Comfortable:

Go • Javascript • Scala • Ruby
 NoSQL | MongoDB • Rails • Django

Familiar:

Caml • Matlab • Lua

LIBRARIES & TOOLS

Proficient:

Keras • Numpy • OpenCV
 Pytorch • Google Colab • VTK
 OpenMP • Optuna • Neptune
 Jupyter Notebook • Matplotlib
 Sacred | Omniboard • GIT
 GCP • Terraform • Tensorflow

Comfortable:

Pandas • Seaborn • Scikit-Learn

Familiar:

AWS • Spark • Hadoop

LANGUAGES

English	Fluent
French	Native
Chinese(Mandarin)	Proficient

EXPERIENCE

SFEIR | AGILE DATA ENGINEER

May 2021 - Present | Paris, France

- Worked for their client **L'Oreal** and collaborated on an agile work environment
- Created data processing pipelines on **GCP** using **Terraform** for IaC and **Cloud Workflows** to orchestrate and automate processing steps
- Stored processed data and created views in **BigQuery** for **Power BI** Dashboards
- Expose data through API implemented with **Flask**, running on **Cloud Run**
- **Certified Professional Data Engineer on Google Cloud**

SIEMENS HEALTHINEERS | RESEARCH ENGINEER IN DEEP LEARNING

Mar 2019 - Mar 2020 | Princeton, New Jersey, United States

Skills : C/C++, Python, PyTorch, Optuna, OpenMP, OpenCV, Sacred | Omniboard, VTK

- Collaborated on **3D cardiac chambers modelization** project using 3D ultrasounds
- Trained **Multi-Agent Deep Reinforcement Learning** for landmarks detection
- Implemented and trained 3D volumes classification models on unbalanced dataset
- Optimized production code speed and optimized models hyper-parameters
- Achieved **3x faster and 10% more accurate modelization** than the base solution

III-FINANCEMENTS | FULL STACK DEVELOPER

Sep 2017 - Feb 2018 | Paris, France

- Developed a management web application and statistical analysis dashboards
- Designed Front-end, Back-end, and Database Modeling using **Ruby on Rails**
- Deployed the application and is currently used by more than 80% of the staffs

LRDE - EPITA R&D LAB | RESEARCH STUDENT

Jan 2017 - Sep 2017 | Paris, France

- Worked with **G.Tochon** to implement a generic and optimized **Binary Partition Tree**, a hierarchical representation for image processing in **C++**
- Evaluated BPT noise resistance and noise influence on the structure construction

ATOS | WEB APPLICATION DEVELOPER

Jun 2016 - Aug 2016 | Paris, France

- Worked for their client GRDF (Gas Networks of France)
- Created Data Visualization applications for their decision-making department
- Provided documentations on the developed applications and the source code
- Launched developed applications to Production

PROJECTS

AUTONOMOUS RACING CAR | PYTHON, KERAS

Apr 2018 - Feb 2019 | Paris, France

- Led a team of 4 students and competed against more than **20 teams nationwide**
- Built an autonomous RC car connected to a **Raspberry Pi 3** with camera module
- Collected, processed and simulated data for Deep Learning training
- Designed, trained **time and memory efficient** models to run on embedded system

AWARDS & CERTIFICATION

2021	July 21st	Google Cloud Certified Professional Data Engineer	
2018	1 st /10	DIY Robocars France, Fall Race (Self-Driving Car)	
2018	3 rd /20	IronCar France, Summer Race (Self-Driving Car)	

